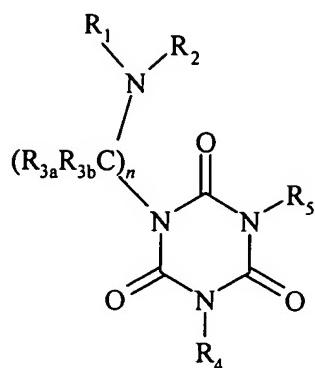


CLAIMS

We claim:

1. A compound having the following structure:



or a stereoisomer, prodrug or pharmaceutically acceptable salt thereof,

n is 2, 3 or 4;

R_1 and R_2 are the same or different and independently hydrogen, alkyl, substituted alkyl, aryl, substituted aryl, arylalkyl, substituted arylalkyl, heterocycle, substituted heterocycle, heterocyclealkyl, substituted heterocyclealkyl, $-C(R_8)(=NR_9)$ or $-C(NR_{10}R_{11})(=NR_9)$;

or R_1 and R_2 taken together with the nitrogen atom to which they are attached form a heterocycle or a substituted heterocycle;

R_{3a} and R_{3b} are the same or different and, at each occurrence, independently hydrogen, alkyl, substituted alkyl, alkoxy, alkylthio, alkylamino, aryl, substituted aryl, arylalkyl, substituted arylalkyl, heterocycle, substituted heterocycle, heterocyclealkyl, substituted heterocyclealkyl, $-COOR_{12}$ or $-CONR_{10}R_{11}$;

or R_{3a} and R_{3b} taken together with the carbon atom to which they are attached form a homocycle, substituted homocycle, heterocycle or substituted heterocycle;

or R_{3a} and the carbon to which it is attached taken together with R_1 and the nitrogen to which it is attached form a heterocycle or substituted heterocycle;

R_4 is arylalkyl, substituted arylalkyl, heteroarylalkyl or substituted heteroarylalkyl;

R_5 is aryl, substituted aryl, heteroaryl or substituted heteroaryl;

R_8 is independently hydrogen, alkyl, substituted alkyl, aryl, substituted aryl, arylalkyl, substituted arylalkyl, heterocycle, substituted heterocycle, heterocyclealkyl or substituted heterocyclealkyl;

R_9 is independently hydrogen, alkyl, substituted alkyl, aryl, substituted aryl, arylalkyl, substituted arylalkyl, heterocycle, substituted heterocycle, heterocyclealkyl or substituted heterocyclealkyl;

R_{10} and R_{11} are the same or different independently hydrogen, alkyl, substituted alkyl, aryl, substituted aryl, arylalkyl, substituted arylalkyl, heterocycle, substituted heterocycle, heterocyclealkyl or substituted heterocyclealkyl; and

R_{12} is hydrogen, alkyl, or substituted alkyl.

2. The compound of claim 1 wherein R_4 is substituted arylalkyl or substituted heteroarylalkyl.

3. The compound of claim 1 wherein R_5 is substituted aryl or substituted heteroaryl.

4. The compound of claim 1 wherein n is 2 or 3.

5. The compound of claim 4 wherein R_4 is substituted arylalkyl or substituted heteroarylalkyl.

6. A pharmaceutical composition comprising a compound of claim 1 and a pharmaceutically acceptable carrier or diluent.

7. A method for antagonizing gonadotropin-releasing hormone in a subject in need thereof, comprising administering to the subject an effective amount of a compound of claim 1.

8. A method for treating a sex-hormone related condition of a subject in need thereof, comprising administering to the subject an effective amount of the pharmaceutical composition of claim 6.

9. The method of claim 8 wherein the sex-hormone related condition is cancer, benign prostatic hypertrophy or myoma of the uterus.

10. The method of claim 9 wherein the cancer is prostatic cancer, uterine cancer, breast cancer or pituitary gonadotroph adenomas.

11. The method of claim 8 wherein the sex-hormone related condition is endometriosis, polycystic ovarian disease, uterine fibroids or precocious puberty.

12. A method for preventing pregnancy of a subject in need thereof, comprising administering an effective amount of the pharmaceutical composition of claim 6.

13. A method for treating lupus erythematosis, irritable bowel syndrome, premenstrual syndrome, hirsutism, short stature or sleep disorders of a subject in need thereof, comprising administering to the subject an effective amount of the pharmaceutical composition of claim 6.